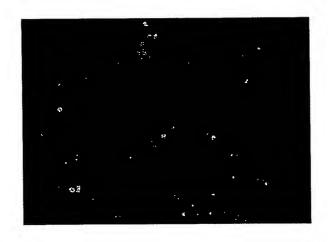
Figure 1 – Immunofluorescence staining for FcαR in primary human cell cultures of OA and RA synovial fibroblasts.

Osteoarthritis



Rheumatoid arthritis

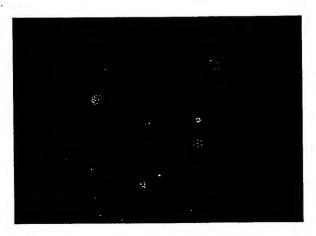
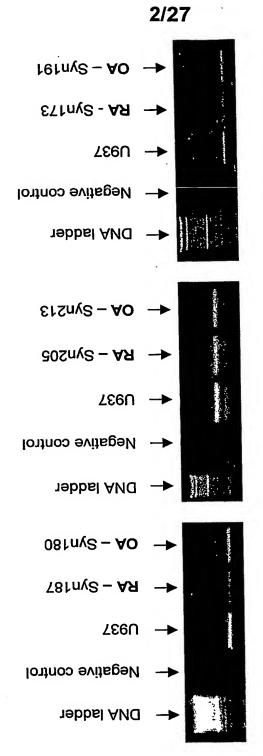


Figure 2 - Synovial fibroblasts from patients with rheumatoid arthritis (RA) and osteoarthritis (OA) express Fc-alpha receptor mRNA by RT-PCR (U937 myelomonocytic cell line was used as a positive control.)

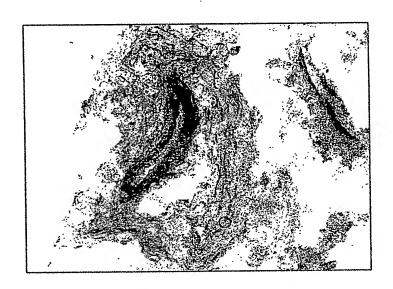


(Primary cultures of synovial fibroblasts from 3 different patients with RA and 3 with OA.)



Figure 3 - Synovial tissue from patients with RA or OA express Fc\(\alpha\R\) in synovial cells and endothelial cells

Rheumatoid arthritis



Osteoarthritis

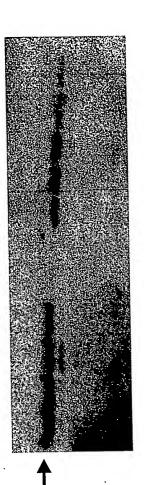


Figure 4 - pIgA Increases NFKB Activity in Synovial Fibroblasts in a Dose-Response Manner

Rheumatoid Arthritis Osteoarthritis

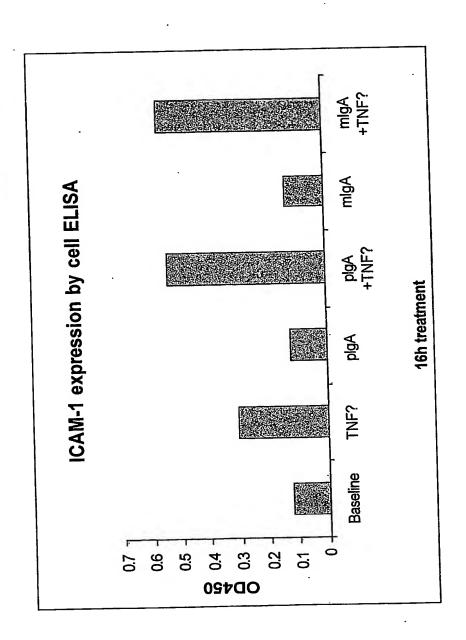
0.2µg/ml
0.02µg/ml
0.002µg/ml
Buffer alone
Free probe
2µg/ml
0.2µg/ml
0.02µg/ml
0.02µg/ml

2µg/ml



NF_KB-

Figure 5A - IgA increases TNF α -induced ICAM-1 expression on RA synovial fibroblasts



IgA

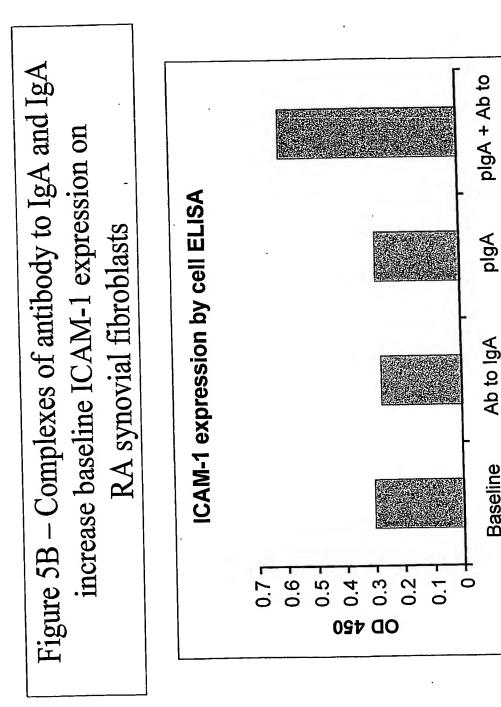
plgA

Ab to IgA

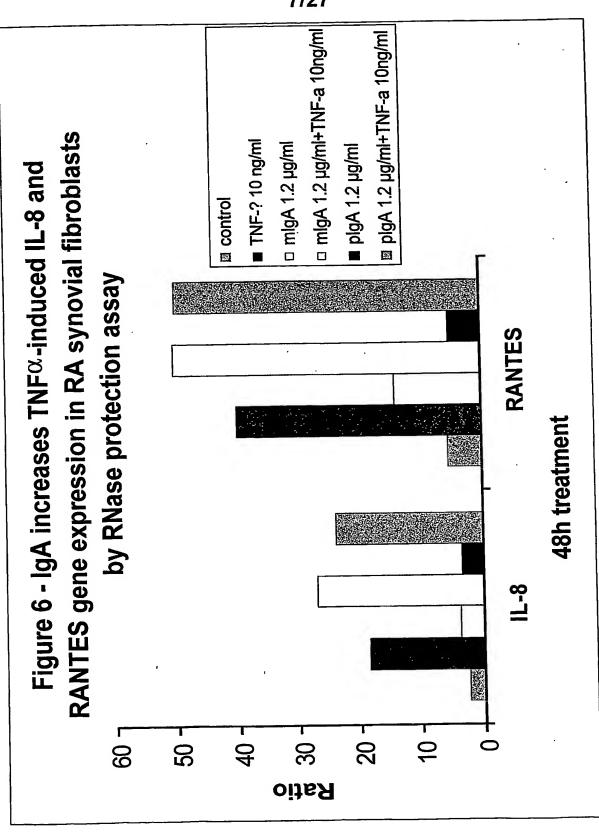
Baseline

24 hr Treatment

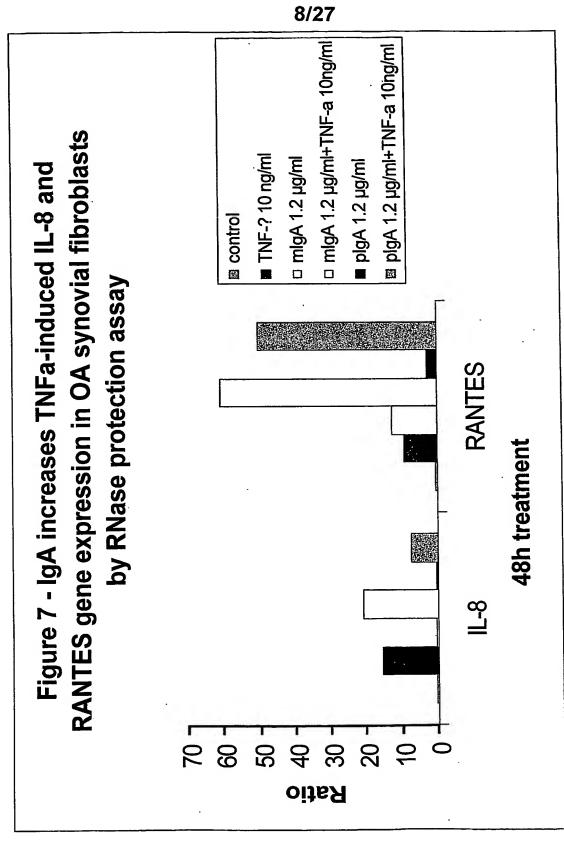
6/27











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9/27

Figure 8A - hplgR expression in human ASM

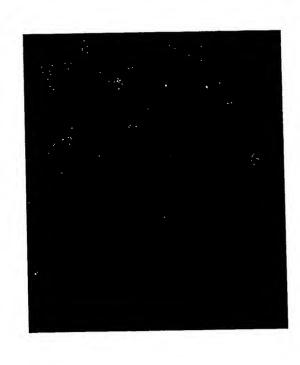
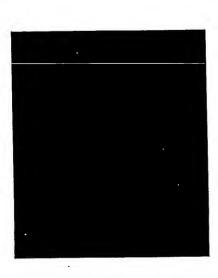


Figure 8B - Live cell uptake of plgA by serum-starved ASM





plgA (0.12 µg/ml)

mIgA (12 µg/ml)

Rec'd PCT/PTC 755 255

11/27

Figure 8C - Live cell uptake of antibody to plgR by serum-starved ASM Rabbit antibody to SC Irrelevant rabbit IgG Serum-free media

Figure 9 - $Fc\alpha R$ expression in serum-fed human ASM Pre-incubated with: - mIgA (12µg/ml) - plgA (1.2µg/ml) - Media

Human ASM were pre-incubated with media alone, pIgA (1.2 μg/ml) or mIgA (12 μg/ml), before fixation and staining with mouse anti FcαR (CD89) and FITC-donkey anti-mouse IgG.

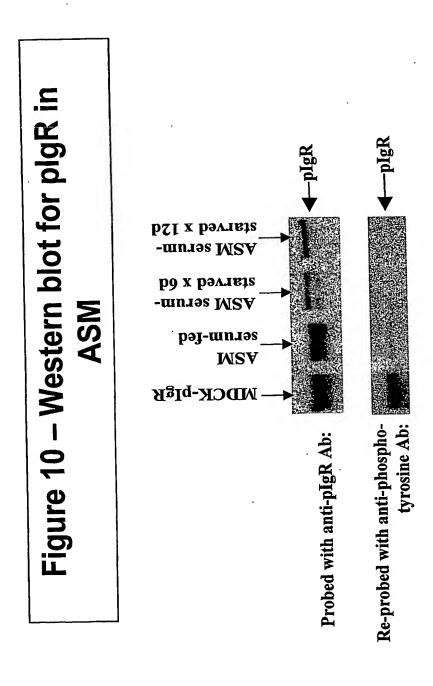
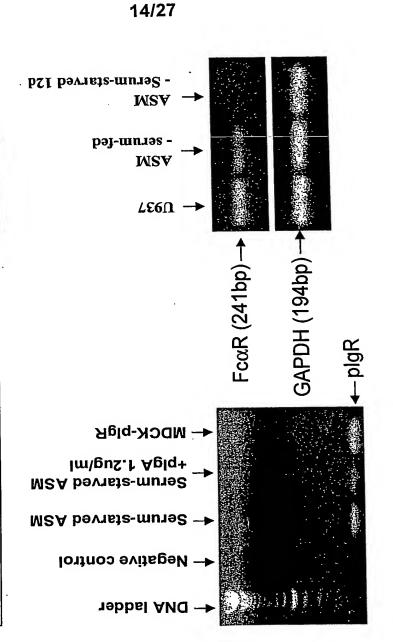


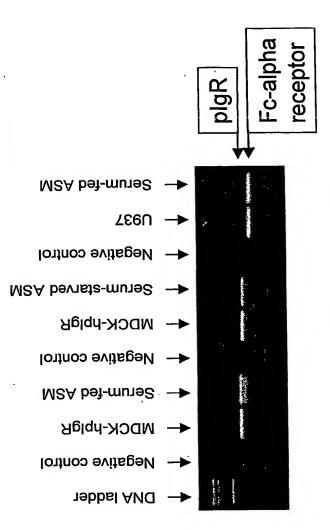
Figure 11A - Human airway smooth muscle cells human plgR and U937 cell lines were used as positive controls.) express plgR and FcαR mRNA by RT-PCR (Madin-Darby canine kidney cells transfected with



(Primary cultures of ASM from subject A.)

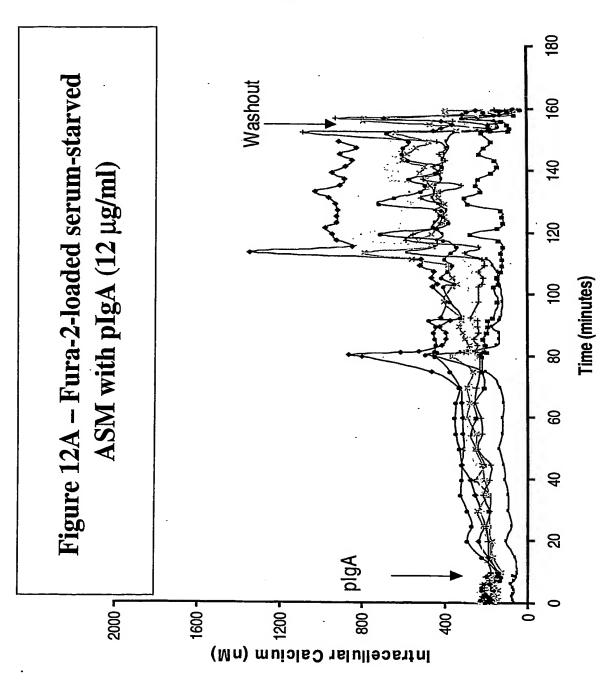
WO 2004/012763

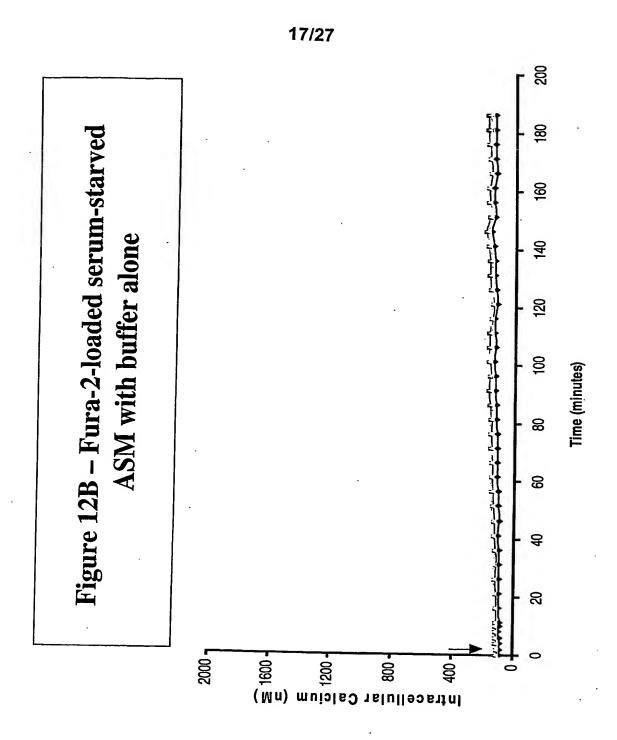




(Primary cultures of ASM from subject C.)

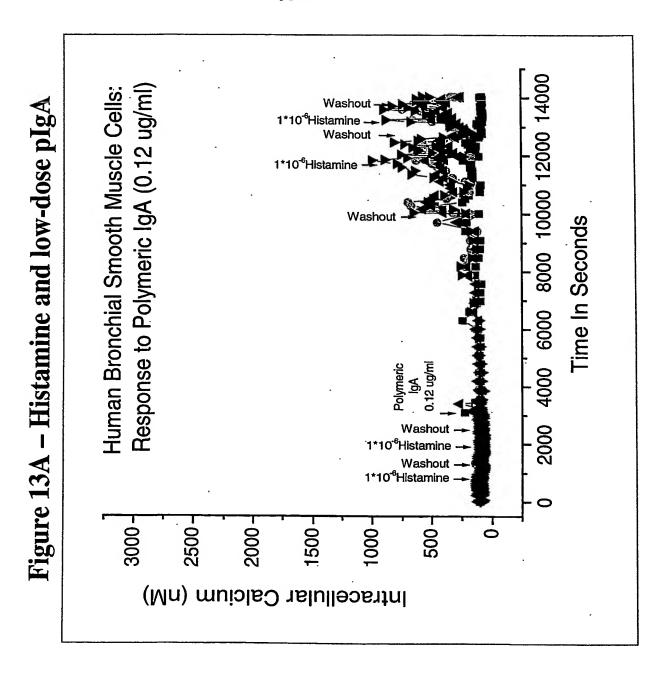




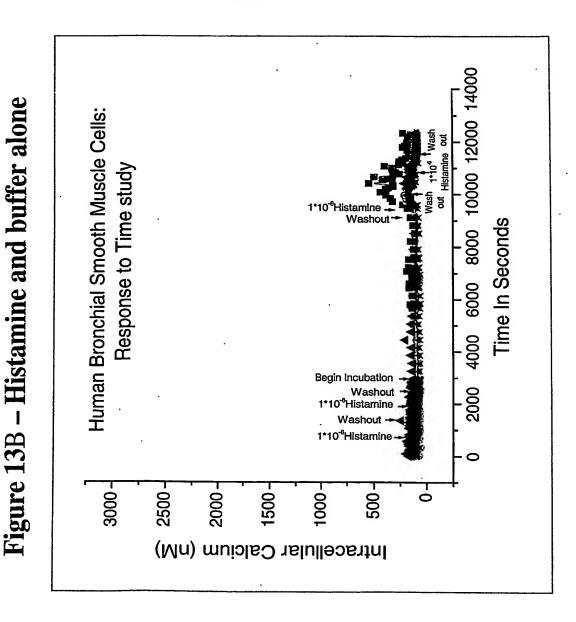


Rec'd PCI/PTO 10, FEB 2000

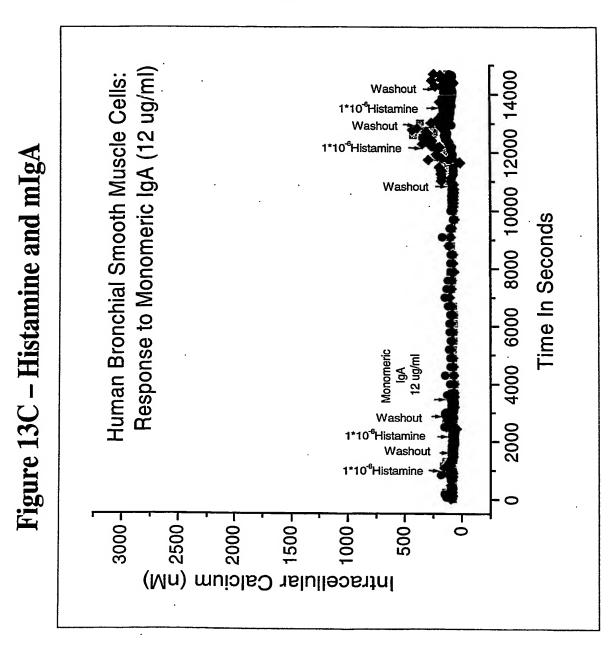
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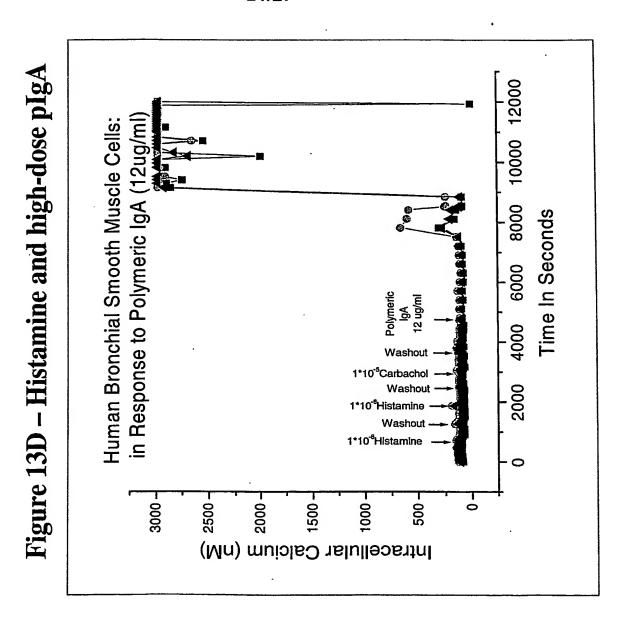
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20/27



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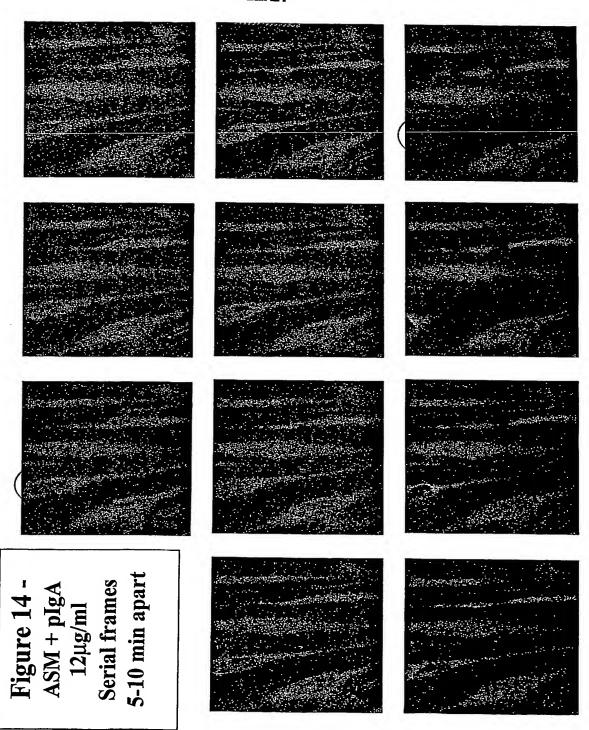
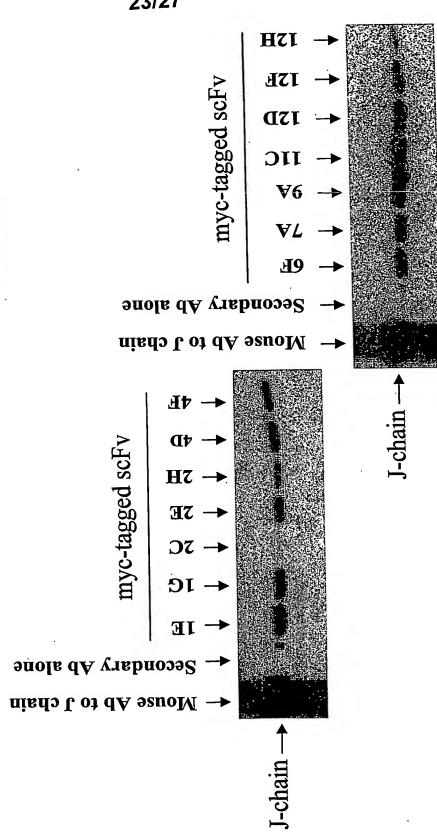


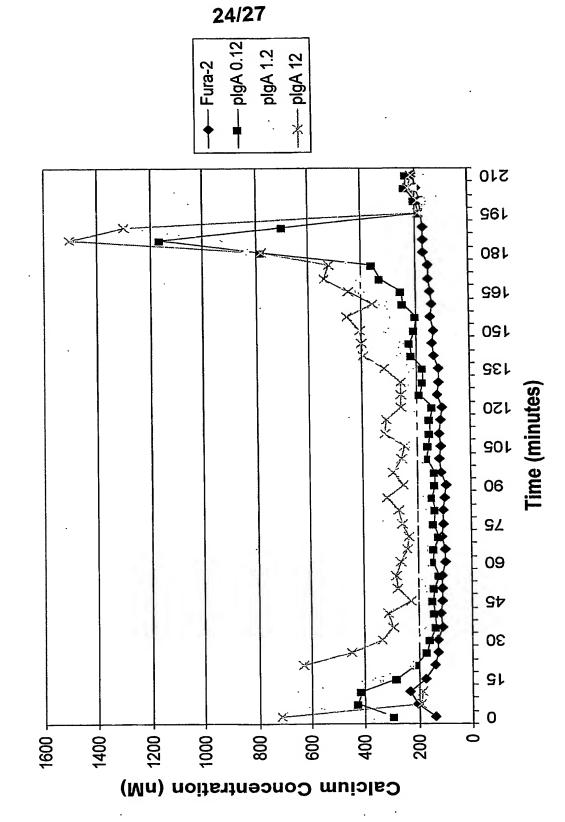
Figure 15: Candidate scFv binders to Jchain recognize J-chain by western blot



23/27

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IgA-induced increase in cystolic calcium concentration Figure 16B - Anti-J-chain IgG antibody reduces in serum-starved ASM cells.

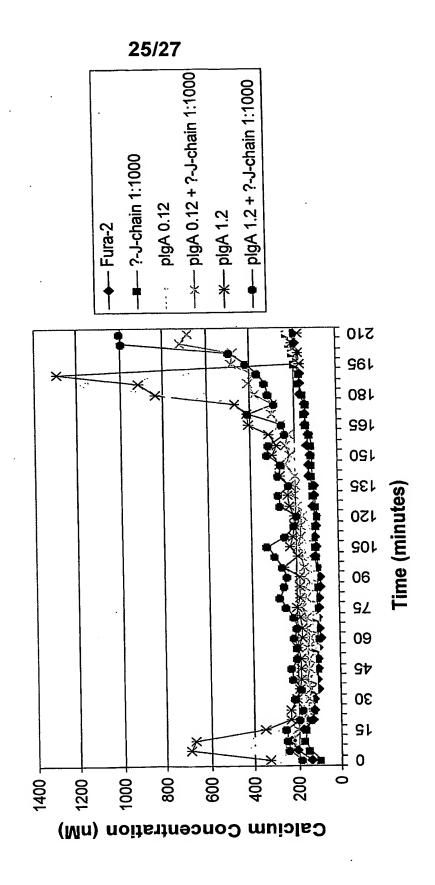
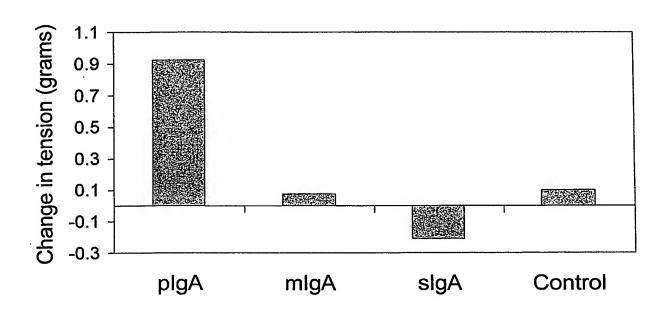
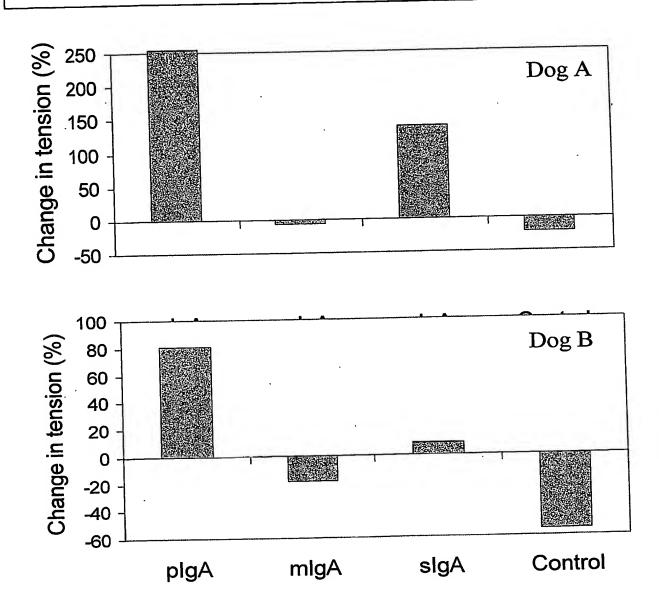


Figure 17 - pIgA increases tension in isolated dog tracheal smooth muscle strips



(Graph presents data recorded at 5.5h.)

Figure 18 - pIgA enhances histamine-induced increases in tension in dog tracheal smooth muscle strips



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